

APPROVED	O.C. FIG.	
BY	CLASS	SUBCLASS
TSMAH		

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FIGURE 1. Methionyl tRNA synthetase cloned DNA sequence [SEQ ID NO:1]

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1  ATGGCTAAAG AAACATTTTA TATAACAACC CCAATATACT ATCCTAGTGG
51  GAATTTACAT ATAGGACATG CATATTCTAC AGTGGCTGGA GATGTTATTG
101 CAAGATATAA GAGAAATGCAA GGATATGATG TTCGTTATTT GACTGGAACG
151 GATGAACACG GTCAAAAAAT TCAAGAAAAA GCTCAAAAAG CTGGTAAGAC
201 AGAAAATTGAA TATTGGATG AGATGATTGC TGGAATTAAA CAATTGTGGG
251 CTAAGCTTGA AATTTCAAAT GATGATTTTA TCAGAACAAC TGAAGAACGT
301 CATAAACATG TCGTTGAGCA AGTGTTTGAA CGTTTATTAA AGCAAGGTGA
351 TATCTATTTA GGTGAATATG AAGTTGGTA TTCGTGTTCCG GATGAAACAT
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FIG. 1A

401 ACTATACAGA GTCACAATTA GTAGACCCAC AATACGAAA CGTAAAATT
451 ATTGGTGGCA AAAGTCCAGA TTCTGGACAC GAAATTGAAC TAGTAAAGA
501 AGAAAGTTAT TTCTTTAATA TTAGTAAATA TACAGACCGT TTATTAGAGT
551 TCTATGACCA AAATCCAGAT TTTATACAAC CACCATCAAG AAAAAATGAA
601 ATGATTAAACA ACTTCATTAA ACCAGGACTT GCTGATTAG CTGTTTCTCG
651 TACATCATTT AACTGGGGTG TCCATGTTCC GTCTAATCCA AAACATGTTG
701 TTTATGTTTG GATTGATGCG TTAGTTAACT ATATTTCAGC ATTAGGCTAT
751 TTATCAGATG ATGAGTCACT ATTTAACAA TACTGGCCAG CAGATATTCA
801 TTTAATGGCT AAGGAAATTG TGCGATTCCA CTCAATTATT TGGCCTATTT

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FIG. 1B

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851 TATTGATGGC ATTAGACTTA CCGTTACCTA AAAAAGTCTT TGCACATGGT
901 TGGATTTTGA TGAAGATGG AAAAATGAGT AAATCTAAAG GTAATGTTGT
951 AGACCCCTAAT ATTTTAATTG ATCGCTATGG TTTAGATGCT ACACGTTATT
1001 ATCTAATGCG TGAATTACCA TTTGGTTCAG ATGGCGTATT TACACCTGAA
1051 GCATTTGTTG AGCGTACAAA TTTCGATCTA GCAAATGACT TAGGTAACCT
1101 AGTAAACCGT ACGATTCTA TGGTTAATAA GTACTTTGAT GGCGAATTAC
1151 CAGCGTATCA AGGTCCACTT CATGAATTAG ATGAAGAAAT GGAAGCTATG
1201 GCTTTAGAAA CAGTGAAAAG CTACACTGAA AGCATGGAAA GTTTGCAATT

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FIG 1C

1251 TTCTGTGGCA TTATCTACGG TATGGAAGTT TATAAGTAGA ACGAATAAGT
1301 ATATTGACGA AACACGCCT TGGGTATTAG CTAAGGACGA TAGCCAAAAA
1351 GATATGTTAG GCAATGTAAT GGCTCACTTA GTTGAAAATA TTCGTATGTC
1401 AGCTGTATTA TTACGTCCAT TCTTAACACA TGCGCCGAAA GAGATTTTTG
1451 AACAAATTGAA CATAAACAAAT CCTCAATTTA TGGAATTTAG TAGTTTAGAG
1501 CAATATGGTG TGCCTTACTGA GTCAATTATG GTTACTGGGC AACCTAAACC
1551 TATTTTCCCA AGATTGGATA GCGAAGCGGA AATTGCATAT ATCAAAGAAT
1601 CAATGCAACC GCCTGCTACT GAAGAGGAAA AAGAAGAGAT TCCTAGCAAA
1651 CCTCAAATTG ATATTAAAGA CTTTGATAAA GTTGAAATTA AGGCAGCAAC

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FIG 1D

1701 GATTATTGAT GCTGAACATG TTAAGAAGTC AGATAAGCTT TTAAAAATTC
1751 AAGTAGACTT AGATTCTGAA CAAAGACAAA TTGTATCAGG AATTGCCAAA
1801 TTCTATACAC CAGATGATAT TATTGGTAAA AAAGTAGCAG TTGTTACTAA
1851 CCTGAAACCA GCTAAATTAA TGGGACAAA ATCTGAAGGT ATGATATTAT
1901 CTGCTGAAA AGATGGTGTA TTAACCTTAG TAAGTTTACC AAGTGCAATT
1951 CCAAAATGGTG CAGTGATTAA ATAA

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FIGURE 2. Methionyl tRNA synthetase deduced amino acid sequence [SEQ ID NO:2]

1 MAKETFYITT PIYPPSGNLH IGHAYSTVAG DVIARYKRMQ GYDVRYLTGT

51 DEHGQKIQEK AQKAGKTEIE YLDEMIAGIK QLWAKLEISN DDFIRTEER

101 HKHVVEQVFE RLLKQGDYIL GEYEGWYSVP DETYYTESQL VDPQYENGKI

151 IGGKSPDSGH EVELVKEESY FFNISKYTDR LLEFYDQNPD FIQPPSRKNE

201 MINNFIKPGL ADLAVSRTSF NWGVHVPSNP KHVVVVWIDA LVNYISALGY

251 LSDDDESLENK YWPADIHLMA KEIVRFHSII WPILLMALDL PLPKKVFAHG

301 WILMKDGKMS KSKGNVVDPN ILIDRYGLDA TRYILMRELP FGSDGVFTPE

351 AFVERTNFDL ANDLGNLVNR TISMVNKYFD GELPAYQGPL HELDEEMEAM

401 ALETVKSYTE SMESLQFSVA LSTVWKFISR TNKYIDETTP WVLAKDDSQK

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FIG 2A

451 DMLGNVMAHL VENIRYAAVL LRPFLTHAPK EIFEQLNINN PQFMEFSSLE
501 QYGVLTESIM VTGQPKPIFP RLDSEAEIAY IKESMQPPAT EEEKEEIPSK
551 PQIDIKDFDK VEIKAATIID AEHVKKSDKL LKIQVDLDSE QRQIVSGIAK
601 FYTPDDIIGK KVAVVTNLKP AKLMGQKSEG MILSAEKDGV LTLVSLPSAI
651 PNGAVIK